

ABSTRACT OF THE DISCLOSURE

- [34] A gearbox assembly includes a housing which contains a differential gear set and a two-speed reduction gear set. A spider drives differential pinion gears nested between outer pinion gears. A first and a second clutch that can be engaged "on the fly" achieve the two-speed functionality of the gearbox assembly. Another gearbox assembly includes an on-demand locking differential with a differential clutch located between differential axle side gears to selectively lock the differential axle side gears together and thereby lock the axle shafts.

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